

Table 7 **Integrase**

	MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
138	1C4	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> 1C4: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 							
139	2C11	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> 2C11: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 							
140	2E3	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Nilsen et al.(1996), Ovod et al.(1994)] NOTES: <ul style="list-style-type: none"> 2E3: There are two MAbs called 2E3 – the other one binds to Nef [Ovov et al.(1994)] 2E3: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 							
141	3E11	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Otteken et al.(1992), Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> 3E11: There is another MAb with this ID that recognizes p17 [Otteken et al.(1992)] 3E11: Recognized an epitope present on HIV-2/SIVmac, SIVagm, HIV-1, and SIVmnd [Otteken et al.(1992)] 3E11: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 							
142	3F9	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> 3F9: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 							

HIV Monoclonal Antibodies

	Mab ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
143	5F8	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
	References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> • 5F8: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 						
144	6G5	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
	References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> • 6G5: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 						
145	7B6	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
	References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> • 7B6: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 						
146	7C6	IN(1-16 HXB2)	RT(716-731)	FLDGIDKAQDEHEKY-H ?	N	bacterial expressed integrase	murine(IgG _{1κ})
	References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> • 7C6: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 						
147	6C5	IN(17-38 HXB2)	RT(732-753)	SNWRAMASDFNLPPV-VAKEIVA ?	N	bacterial expressed integrase	murine(IgG _{1κ})
	References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> • 6C5: This MAb inhibits end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 						
148	8G4	IN(22-31 + 82-101 HXB2)	RT	MASDFNLPPV + GYIEAEVIPAETGQE-TAYFI ?	N	bacterial expressed integrase	murine(IgG _{1κ})
	References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> • 8G4: This MAb reacted strongly with peptides IN(12-31) and IN(22-42), and less strongly with peptide IN(82-101) – it did not react with a deletion mutant of positions 17-38 – this MAb inhibits end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)] 						
149	4D6	IN(42-55 HXB2)	RT(757-770)	KCQLKGEAMHGQVD ?	N	bacterial expressed integrase	murine(IgG _{1κ})
	References: [Nilsen et al.(1996)] NOTES: <ul style="list-style-type: none"> • 4D6: This MAb inhibits end processing and DNA joining, and reduces reintegration activity [Nilsen et al.(1996)] 						

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
150 4F6	IN(56-102 HXB2)	RT(771-817)	CSPGIWQLDCTHLEG-KVILVAVHVASGYIE-AEVIPAETGQETAYF-LL ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Nilsen et al.(1996)] NOTES: • 4F6: MAb binding had minimal effects on IN <i>in vitro</i> activities [Nilsen et al.(1996)]						
151 5D9	IN(186-250 HXB2)	RT(901-965) ?		N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Nilsen et al.(1996)] NOTES: • 5D9: MAb binding had minimal effects on IN <i>in vitro</i> activities [Nilsen et al.(1996)]						
152 8E5	IN(262-271 HXB2)	RT(977-986)	RRKAKIIRDY ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Nilsen et al.(1996)] NOTES: • 8E5: A set of three MAbs recognize an epitope in this region, 7C3, 7F11, and 8E5 – all three HIV-1 MAbs cross-react with HIV-2 IN – these MAbs inhibit end-processing, DNA joining and reintegration, and had little effect on disintegration [Nilsen et al.(1996)]						
153 7C3	IN(262-271 HXB2)	RT(977-986)	RRKAKIIRDY ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Nilsen et al.(1996)] NOTES: • 7C3: A set of three MAbs recognize an epitope in this region, 7C3, 7F11, and 8E5 – all three HIV-1 MAbs cross-react with HIV-2 IN – these MAbs inhibit end-processing, DNA joining and reintegration, and had little effect on disintegration [Nilsen et al.(1996)]						
154 7F11	IN(262-271 HXB2)	RT(977-986)	RRKAKIIRDY ?	N	bacterial expressed integrase	murine(IgG _{1κ})
References: [Lasky et al.(1987), Nilsen et al.(1996)] NOTES: • 7F11: There is another MAb with this name that binds to gp120 [Lasky et al.(1987)] • 7F11: A set of three MAbs recognize an epitope in this region, 7C3, 7F11, and 8E5 – all three HIV-1 MAbs cross-react with HIV-2 IN – these MAbs inhibit end-processing, DNA joining and reintegration, and had little effect on disintegration [Nilsen et al.(1996)]						
155 MAb 35	IN(264-273)?	RT(979-988)	KAKIIRDYGK	N	r IN	murine IgG _κ
References: [Barsov et al.(1996)] NOTES: • MAb 35: Although MAb 35 does not inhibit HIV-1 IN, Fab 35 inhibits 3'-end processing, strand transfer and disintegration [Barsov et al.(1996)]						
156 RT-4	RT	RT	?	N	?	murine(IgG _{2b})
References: [Li et al.(1993), Gu et al.(1996)] NOTES: • RT-4: Increased nevirapine and delavirdine inhibition, no effect on AZT inhibition [Gu et al.(1996)]						